The Honorable Madelyn R. Creedon Deputy Administrator for Defense Programs Department of Energy 1000 Independence Avenue, SW Washington, DC 20585-0104

Dear Ms. Creedon:

In a letter dated May 2, 2000, the Defense Nuclear Facilities Safety Board (Board) requested an evaluation of significant unanalyzed fire hazards associated with the W76 Program at the Pantex Plant, along with recommended potential compensatory measures. The Board requested a response within 4 weeks. The response requires input from personnel at Los Alamos National Laboratory (LANL), but this evaluation has understandably been affected by the Cerro Grande fire. As a result, the Department of Energy (DOE) has asked to delay the report and briefing requested in the Board's letter of May 2, 2000. As yet unresolved is the concern over the potential energetic reaction of canned sub-assemblies (CSAs) in the fires postulated for this operation and its potential detrimental effects. This concern is heightened when coupled with the Board's observation, also contained in the aforementioned letter, that the postulated fires could be more severe than anticipated.

The Board is concerned that crucial safety information available from the Y-12 Plant was never assimilated into the Weapon Safety Specification (WSS), Hazard Analysis Report (HAR), or Activity-Based Controls Document (ABCD). None of these safety-related documents considers the CSA in detail. Also, it does not appear that the CSA issue is being addressed effectively for weapon systems other than the W76. The enclosed classified issue paper prepared by the Board's staff discusses additional potential problems associated with fire- induced heating of CSAs.

When separated from the enclosure, this document is unclassified

The Board's staff has had numerous conversations on these matters with responsible LANL personnel. It appears the W76 CSA issue is being addressed, and the adequacy of the Pantex fire hazard analyses is being reviewed. Initial results of the LANL review appear to be consistent with the results of the Y-12 analyses and the conclusions of the Board's staff. LANL personnel are also planning to meet with Lockheed Martin Energy Systems at the Y-12 Plant and to review the CSA data. The staff has already discussed these data with the appropriate personnel at LANL.

The Board notes that the nuclear explosive safety study and the readiness assessment for the W76 Disassembly and Inspection Program have been postponed and that DOE agrees that this issue must be resolved prior to declaring readiness to proceed with these functions. Based on these changes, the Board accepts DOE's proposal to delay providing the report and briefing, and requests that DOE evaluate the concerns in this letter and enclosed staff issue report and factor them into its response.

Sincerely,

John T. Conway Chairman

c: Mr. David E. Beck

Mr. Richard F. Glass

Mr. Mark B. Whitaker, Jr. (without enclosure)

Enclosure